



N49RF ERROR SUMMARY

REPO KONT - KMCF

11 March 2016



Flight ID: 20160311N1

Sensor or system

Static Pressure Probe

Dynamic Pressure Probe

Total Temperature Probe

Dewpoint Temp. Probe

Vertical Accelerometer

Altimeter

INE Selection

Differential Attack Pressure Probe

Differential Sideslip Pressure Probe

Dynamic Attack Pressure Probe

Dynamic Sideslip Pressure Probe

Flight Directory

Number or Name

PSM.2

PQM.2

TTM.4

TDM.1

AccZfilterI.1

AltGPS.3

1

PDALPHA.2

PDBETA.1

PQALPHA.2

PQBETA.1

acdata/2016/MET/20160311N1

Local Met Data:

Takeoff - KONT 2028Z

Landing - KMCF 0041Z

Aircraft Static Pressure

980.5 mb

1020.2 mb

Tower Pressure (corrected)

981.2 mb

1022.2 mb

Notes:

Takeoff / Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

TDM.1 and TDM.2 are not rated for use under -50 deg C, so neither can be considered reliable for dew points colder than -50C. While normally reliable at lower altitudes, both dew point sensors displayed anomalously low values and abnormal oscillations during takeoff climb and descent to landing. Therefore, all flight level humidity data for this mission should be considered suspect.

AltGPS.3 was used as the source for absolute altitude. AltRa.1 displayed an interval of intermittent missing data points (NaNs) during climb after takeoff around 2047z and 2051z and anomalous down-spiking periodically at mission cruise for the remainder of the flight but was not used for any derived meteorological parameters.

Other than the dew point sensors, there were no issues noted in the measured parameters used to calculate meteorological and navigational parameters.

Expendable Type	Number deployed	Number good	Number of messages transmitted
GPS dropwindsonde	0	0	0

Flight Director:
Phone #:

Richard Henning
(813) 828-4624